

RESIDENTIAL ENERGY INSPECTION ITEMS

To be verified at framing (seconds) inspection:

Mechanical/Plumbing:

1. Min R value for duct outside the building is R-8
2. Min R value for duct located in the attic: IRC = R-5; IECC = supply duct = R-6 (R-8 after February 1, 2003), return duct = R-4.
3. Joints/seams sealed w/ approved mastic, listed tape (duct tape not permitted) (roll back outer insulation of flex duct to verify sealing method/materials)
4. Suction line insulation required thickness: IRC = $\frac{3}{4}$ inch; IECC = $\frac{1}{2}$ inch (1" pipe and less); for developed line lengths in excess of 4 feet that are exposed to outside air add extra $\frac{1}{2}$ inch
5. Are heat traps required?

Electrical:

6. Recessed light fixtures in ceiling (envelope) must be 1) Type IC sealed, 2) installed in sealed gypsum box or 3) Type IC rated in accordance w/ ASTM E 28

Framing (Building Envelope):

7. Check door and window rough openings with the approved plans
8. Check NFRC *U*-factor and SHGC labels on all glazing with the approved plans (1% of the glazing area is exempt from the *U*-factor requirement) (labels from skylights to be attached to stud nearest skylight)
9. Check *U*-factor on all doors (one opaque door is exempt from the *U*-factor requirement) (Max *U*-factor is 0.35)
10. Penetrations in top and bottom plates sealed to limit uncontrolled air movement
11. If house is not wrapped with an approved air barrier, then all seams and penetrations in exterior sheathing must be caulked, gasketed, or otherwise sealed to limit uncontrolled air movement
12. Check framing dimensions in areas where roof/ceiling assemblies are located (1 inch of air space required for ventilation)

To be verified at Insulation Inspection:

(**This is a new inspection that must be requested after the framing is approved and after the insulation is installed but before the drywall is installed)

13. Check all insulation installed in cavities has correct R-value (use certification for sprayed in insulation)
14. Check that insulation is **not** compressed
15. Check that insulation is cut around pipes, wires and electrical boxes to eliminate voids
16. Check that insulation baffles are installed at eaves (min 2 baffles @ 1st soffit vent, 3 baffles @ 2nd soffit vent and repeat) and at the tops of roof/ceiling assemblies where insulation will be blown in attic (baffle required between each rafter/joist)
17. Check that floor insulation is supported against the underside of the floor to eliminate air spaces
18. Check that insulation is installed behind tubs and in cavity in pony walls between first and second floors
19. Openings between door and window assemblies and their respective framing must be caulked, gasketed, or otherwise sealed to limit uncontrolled air movement
20. Check for properly installed batt insulation under walkways and working platforms for attic installed HVAC and water heaters (Decked storage areas must provide full depth insulation)

To be verified at Final Inspection:

21. Check HVAC equipment SEER values (outdoor unit must be installed)
22. Check attic insulation certification (blown in insulation requires that attics be provide w/ markers showing installed thickness in 1" number for each 300 sq. ft. Certification stating installed thickness, settled thickness, coverage area and number of bags of insulation shall be attached near attic access opening)
23. Energy Star[®] **only** – collect certification letter – insure letter includes address for house being inspected

NOTE: Remember to install weather stripping of all doors (including attic access doors) in building envelope after all painting



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